

# WEST Search History

DATE: Saturday, November 15, 2003

## Set Name Query

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result set

*DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ*

L43 L42

1 L43

*DB=USPT,PGPB,JPAB,EPAB; THES=ASSIGNEE; PLUR=YES; OP=ADJ*

L42 L41 and xylanase

2 L42

L41 L40 and lipase

13 L41

L40 L39 and protease

16 L40

L39 L37 and amylase

16 L39

L38 L37 and lysostaphin

0 L38

L37 L36 and surfactant and enzyme

18 L37

L36 (((510/\$)!.CCLS.)) and (staphylococcus Epidermidis)

48 L36

L35 (((510/\$)!.CCLS.)) and (staphylococcus staphylococcus)

0 L35

L34 ((510/\$)!.CCLS.) and (Staphylococcus simulans)

1 L34

*DB=USPT,JPAB,EPAB; THES=ASSIGNEE; PLUR=YES; OP=ADJ*

L33 US-6423299-\$.did.

1 L33

L32 US-6432444-\$.did.

1 L32

L31 US-6432444-\$.did. and US-6423299-\$.did.

0 L31

L30 L28 and amylase

0 L30

L29 L28 and enzyme

2 L29

*DB=USPT,PGPB,JPAB,EPAB; THES=ASSIGNEE; PLUR=YES; OP=ADJ*

L28 (((8/\$)!.CCLS.)) and lysostaphin

3 L28

L27 ((510/\$)!.CCLS.) and lysostaphin

1 L27

*DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ*

L26 L24 and (amylase or lipase or protease)

6 L26

L25 L24 and amylase and lipase and protease

0 L25

L24 L1 and clean\$

6 L24

L23 L1 and detergent composition

0 L23

L22 L3 and amylase and lipase and protease

1 L22

L21 L20 and enzyme

1 L21

L20 L19 and detergent

1 L20

L19 L18 and lysostaphin

2 L19

L18 (510/\$.ccls. or 8/\$.ccls. or 428/\$.ccls. or 252/\$.ccls.)

237381 L18

L17 L1 and (510/\$.ccls. or 8/\$.ccls. or 428/\$.ccls. or 252/\$.ccls.)

0 L17

L16 (510/\$.ccls. or 8/\$.ccls. or 428/\$.ccls. or 252/\$.ccls.) and lysostaphin and surfactant and enzyme

0 L16

L15 L1 and xylanase

0 L15

L14	L12 and lipase	1	L14
L13	L12 and amylase	1	L13
L12	L11 and detergent	13	L12
L11	L1 and protease	18	L11
L10	L1 and pectinase	0	L10
L9	L1 and mannanase	0	L9
L8	L1 and lipase	2	L8
L7	L1 and galactanase	0	L7
L6	L1 and arabinase	0	L6
L5	L3 and arabinase	0	L5
L4	L3 and amylase	1	L4
L3	L2 and detergent	20	L3
L2	L1	43	L2

*DB=USPT,PGPB,JPAB,EPAB; THES=ASSIGNEE; PLUR=YES; OP=ADJ*

L1	lysostaphin and surfactant and enzyme	85	L1
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END OF SEARCH HISTORY



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1: J Dairy Sci. 1991 Dec;74(12):4175-82.

Full text article at  
ids.far.org

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## Lysostaphin: use of a recombinant bactericidal enzyme as a mastitis therapeutic.

Oldham ER, Daley MJ.

Agricultural Research Division, American Cyanamid Company Princeton, NJ 08543-0400.

A recombinant mucolytic protein, lysostaphin, was evaluated as a potential intramammary therapeutic for *Staphylococcus aureus* mastitis in dairy cattle. Lysostaphin, a product of *Staphylococcus simulans*, enzymatically degrades the cell wall of *Staphylococcus aureus* and is bactericidal. Thirty Holstein-Friesian dairy cattle in their first lactation were infected with *Staphylococcus aureus* (Newbould 305, ATCC 29740) in all quarters. Infections were established and monitored for somatic cell counts and *Staphylococcus aureus* colony-forming units 3 wk prior to subsequent treatment. Infected animals were injected through the teat canal with a single dose of recombinant lysostaphin (dose response 1 to 500 mg) or after three successive p.m. milkings with 100 mg of recombinant lysostaphin in 60 ml of sterile phosphate-buffered saline. Animals were considered cured if the milk remained free of *Staphylococcus aureus* for a total of 28 milkings after last treatment. Kinetic analysis of immunologically active recombinant lysostaphin demonstrated that a minimum bactericidal concentration was maintained in the milk for up to 36 to 48 h after a single infusion of 100 mg of recombinant lysostaphin. The cure rate of quarters receiving recombinant lysostaphin (100 mg in sterile phosphate-buffered saline, administered over three consecutive p.m. milkings) was 20% compared with 29% for sodium cephradine in saline and 57% for a commercial antibiotic formulation, respectively. An improved formulation of recombinant lysostaphin may prove to be an effective alternative to antibiotic therapy for bovine mastitis.

PMID: 1787188 [PubMed - indexed for MEDLINE]

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<enzyme> A mixture of three different proteolytic enzymes, two of which lyse bacterial walls. It is obtained from staphylococcus staphylococcus (s. Epidermidis). Lysostaphin is very antigenic, but has been used in animals and topically in man against certain infections.

Pharmacological action: antibiotics, peptide, anti-infective agents, local.

Registry number: EC 3.4.-

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